



#5

THERMOSTATIC CONTROLLER AND CIRCUIT TESTER

TECHNICAL SPECIFICATIONS

R1

220 k \pm 5% , 0.5 watt Bias Resistor for the 240Vac Neon lamp

R2

35k \pm 5%, 0,5 watt Bias Resistor for the 120Vac Neon lamp

NEON LAMPS

Both lamps are designed to perform within a minimum and maximum range of 120 -240Vac regulated by bias resistors giving a \pm 10% accuracy.

BUZZER

1.5Vdc - 3Vdc working voltage. Buzzer emits audible sound when continuity is made. Will perform on half working voltage of 1.5Vdc when battery power is low.

BATTERIES

2 alkaline AA batteries of 1.5Vdc each, provides power to buzzer and flashlight.

LIGHT BULB

1.5Vdc - 3Vdc prefocussed light bulb, threaded type.

BULB HOLDER

Threaded type.

THERMOSTATIC CONTROLLER AND CIRCUIT TESTER

TECHNICAL SPECIFICATIONS

SWITCH 1

A momentary switch to operate flashlight at 3Vdc maximum. This is a robust switch designed to withstand 120Vac. This switch is an integral part of the test circuit.

SWITCH 2

A DPDT slide switch. This is basically a test mode selector within the test circuit. this switch can withstand 240Vac .

FUSE

Provides protection for the dc circuit and its components. This is a quick blow type designed to trip circuit if ac voltage is applied to test circuit in error. Rating of 350mA. A lower rating fuse value is recommended subject to size and availability.

CONTROLLER SWITCHES 1 - 4

These are push on push off type with a tolerance of 240Vac maximum. All interlinked with 14 AWG single strand copper wire.

TEST LEADS

Banana plug type, with a tolerance of 600vac maximum.

THERMOSTATIC CONTROLLER AND CIRCUIT TESTER

TECHNICAL SPECIFICATIONS

TEST LEAD JACKS

Insulated banana type with 600Vac tolerance.

PROJECT CASING

Molded plastic enclosure type designed with AA size battery compartment and pre-molded screw holes. Dimensions L 5 5/8 x W 3 1/4 x H 1 1/2 inches.

ALLIGATOR CLIPS

Should be medium size (1 3/4 inch) covered with plastic boots.

WIRES

24 AWG stranded copper type.

SLEEVING

Half inch flexible polyolefin and shrinkable tubing, encapsulates controller test leads. Shrink ratio 2:1.

PC BOARD

Copper based general purpose type, cut to fit size 3 x 3/4 inch .

THERMOSTATIC CONTROLLER AND CIRCUIT TESTER

TECHNICAL SPECIFICATIONS

APPLICATION	MODE	SW1 RED POWER	SW2 GREEN FAN	SW3 YELLOW COOL COMP.	SW4 WHITE HTR SOL	DESCRIPTION
HEAT PUMP	COOL	*	*	*	*	Solenoid switches reversing valve to cooling mode
HEAT PUMP	HEAT	*	*	*		Solenoid inactive. Reversing valve preset for heating
SPLIT SYSTEM	COOL	*	*	*		
SPLIT SYSTEM	HEAT	*	*		*	